

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2018 Levee Inspection Results

Reclamation District No. 2107 Mossdale Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 2107 Mossdale Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	2.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/7/2018 - 3/7/2018			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Robert Brown RD2107			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD2107_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight training and an emergency response plan.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD2107_01_s_2013_7				
Comment Code					
Inspector Comment					
Flood fighting supplies are available on-site.					

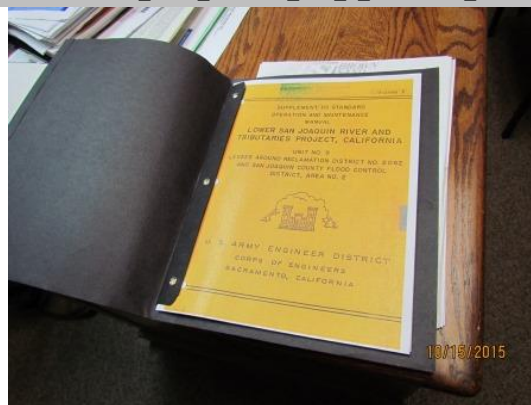
Photo 1 of 1 : SP_2018_RD2107_329_7_20180305_00001.jpg



View of the flood fight emergency supplies.

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2107_01_s_2013_8				
Comment Code					
Inspector Comment					
The O&M Manual is available at the LMA's office.					

Photo 1 of 1 : SP_2018_RD2107_329_8_20180305_00002.jpg



View of the O&M Manual.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspection Report By Mile - Spring 2018

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

Photo 1 of 1 : UCIP_SP_2018_16187_27294.jpg



Pipes visible on LS next to roadway.

Photo 1 of 1 : UCIP_SP_2018_15175_24922.jpg



Pipes visible on LS next to roadway.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	23
LM End	0.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15173 DS_ID:23109 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. Erosion exposed pipes on LS. FIELD_STRUCT_DESC: 1.5-inch polyvinyl chloride (PVC) conduit of an unknown purpose, 1 foot below the road surface, within roadway fill over the levee crown. FS Date: 5/22/2013					

Photo 1 of 2 : UCIP_SP_2018_15173_24918.jpg



Pipes visible on LS next to roadway.

LM Start	0.23	Rating **	M	Issue No.	23 (cont)
LM End	0.23	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_15173_24917.jpg



Pipes visible on LS next to roadway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	24
LM End	0.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15174 DS_ID:23110 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 1.5-inch polyvinyl chloride (PVC) conduit of an unknown purpose, 1 foot below the road surface, within roadway fill over the levee crown. FS Date: 5/22/2013					

Photo 1 of 2 : UCIP_SP_2018_15174_24920.jpg



Enter photo 1 description or comment here.

LM Start	0.23	Rating **	M	Issue No.	24 (cont)
LM End	0.23	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_SP_2018_15174_24921.jpg



Pipes visible on LS next to roadway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	0.27	Rating **	M	Issue No.	25
LM End	0.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784194 °	37.784194 °
				-121.306353 °	-121.306353 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:16188 DS_ID:19055 EP_NO: 12101B Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 4" electrical conduit through the levee 2.5 feet below the crown. Distribution panel on a 5-foot by 6-foot concrete pad on the WS shoulder (Permit No 12101B, 1979). FS Date: 5/21/2013					

Photo 1 of 1 : UCIP_SP_2018_16188_27296.jpg



5X5 concrete pad with exposed electrical conduit on WS shoulder.

LM Start	0.32	Rating **	M	Issue No.	20
LM End	0.32	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.783649 °	37.783649 °
				-121.305710 °	-121.305710 °
DWR ID	DWR_RD2107_01_f_2015_20				
Comment Code					
BU : Building					
Inspector Comment					
Building in the floodway may impede flood flows.					

Photo 1 of 1 : SP_2018_RD2107_329_20_20180305_00005.jpg



View of the building in the floodway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	0.68	Rating **	M	Issue No.	26
LM End	0.68	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779486 °	37.779486 °
				-121.301961 °	-121.301961 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13684 DS_ID:19036 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Wooden walkway to pump on platform is in disrepair and may be a hazard. FIELD_STRUCT_DESC: 1 of 2: 14-inch irrigation pipe of an unknown material through the levee, 17 feet below the crown. Pump on pile structure in the stream. Walkway to pump. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. 36-inch concrete standpipe at the landside (LS) toe. Service pole and circuit panel on the LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 9, April 1964, (HLM 0.68), 12-inch pipe listed]. FS Date: 5/21/2013					

LM Start	0.68	Rating **	M	Issue No.	26 (cont)
LM End	0.68	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_13684_22411.jpg



Pier and 48-inch CMP riser on WS shoulder

Photo 2 of 3 : UCIP_SP_2018_13684_22410.jpg



Walkway to pump on pier at WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	0.68	Rating **	M	Issue No.	26 (cont)	
LM End	0.68	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.779486 °	37.779486 °	
				-121.301961 °	-121.301961 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:13684 DS_ID:19036 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Wooden walkway to pump on platform is in disrepair and may be a hazard. FIELD_STRUCT_DESC: 1 of 2: 14-inch irrigation pipe of an unknown material through the levee, 17 feet below the crown. Pump on pile structure in the stream. Walkway to pump. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. 36-inch concrete standpipe at the landside (LS) toe. Service pole and circuit panel on the LS toe. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 9, April 1964, (HLM 0.68), 12-inch pipe listed]. FS Date: 5/21/2013						

Photo 3 of 3 : UCIP_SP_2018_13684_22409.jpg



Butterfly valve on WS toe.

LM Start	0.70	Rating **	M	Issue No.	27
LM End	0.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779209 °	37.779209 °
				-121.301973 °	-121.301973 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13883					
DS_ID:19039					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Slide gate missing actuator inside 55-inch CMP riser.					
FIELD_STRUCT_DESC: 14-inch irrigation pipe of an unknown material					
through the levee, 15 feet below the crown. Pipe likely runs from a 36-					
inch concrete standpipe on the landside (LS) to outlet on the waterside					
(WS) toe. Portion of the discharge line from the pump at Levee Mile					
0.68. 55-inch corrugated metal pipe (CMP) riser with slide gate on the					
LS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE					
San Joaquin O&M Manual 9, April 1964, (HLM 0.71)].					
FS Date: 5/21/2013					

Photo 1 of 2 : UCIP_SP_2018_13883_22821.jpg



36-inch concrete standpipe on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	0.70	Rating **	M	Issue No.	27 (cont)
LM End	0.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779209 °	37.779209 °
				-121.301973 °	-121.301973 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13883					
DS_ID:19039					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Slide gate missing actuator inside 55-inch CMP riser.					
FIELD_STRUCT_DESC: 14-inch irrigation pipe of an unknown material					
through the levee, 15 feet below the crown. Pipe likely runs from a 36-					
inch concrete standpipe on the landside (LS) to outlet on the waterside					
(WS) toe. Portion of the discharge line from the pump at Levee Mile					
0.68. 55-inch corrugated metal pipe (CMP) riser with slide gate on the					
LS shoulder. [Additional Reference(s): DWR Levee Log, 2005. USACE					
San Joaquin O&M Manual 9, April 1964, (HLM 0.71)].					
FS Date: 5/21/2013					

Photo 2 of 2 : UCIP_SP_2018_13883_22822.jpg



55-inch CMP riser with slide gate (no handle) on LS shoulder. 14-inch and 12-inch pipe visible on LS toe.

LM Start	0.78	Rating **	A	Issue No.	14
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.778668 °	37.778668 °
				-121.303248 °	-121.303248 °
DWR ID	DWR_RD2107_01_s_2018_14				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Acceptable vegetation control.					

Photo 1 of 1 : SP_2018_RD2107_329_14_20180307_00024.jpg



View of the acceptable vegetation control on the waterside levee slope, looking upstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	1.23	Rating **	M	Issue No.	17
LM End	1.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.774123 °	37.774123 °
				-121.307189 °	-121.307189 °
DWR ID	DWR_RD2107_01_s_2012_17				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping and fence present on levee slope.					

Photo 1 of 1 : SP_2018_RD2107_329_17_20180305_00004.jpg



View of landscape planting on landside levee slope and a 3-ft yard fence at the levee toe.

LM Start	1.34	Rating **	A/W	Issue No.	15
LM End	1.34	Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			37.772704 °	37.772704 °
				-121.306793 °	-121.306793 °
DWR ID	DWR_RD2107_01_f_2017_15				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:111					
Site Designation:208-4					
Repair Type: Seepage					
Rating:					
Field Date:					
Notes: In 1997 there was heavy seepage at this location. In 2017 there was no seepage observed at this location.					

Photo 1 of 1 : SP_2018_RD2107_329_15_20180305_00003.jpg



View of the historic seepage site.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	1.35	Rating **	A/W	Issue No.	18
LM End	1.45	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		37.772470°	37.771910°	
			-121.306820°	-121.304990°	
DWR ID	DWR_RD2107_01_f_2017_18				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:113 Site Designation:208-1 Repair Type: Seepage Rating: Field Date: Notes: No seepage observed in 2017.					

No Photos

LM Start	1.45	Rating **	M	Issue No.	28
LM End	1.45	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.771939°	37.771939°	
			-121.305063°	-121.305063°	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13667 DS_ID:19031 EP_NO: 12790 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Verify with electricity provider that electric service is overhead and not through the levee. FIELD_STRUCT_DESC: 1 of 3: Possible electrical conduit of an unknown size or material through the levee, at an unknown depth. Overhead power line on site likely installed instead of the underground conduit. (Permit No. 12790, 1980 - [owner not indicated in permit database]). FS Date: 5/21/2013					

No Photos

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	1.47	Rating **	M	Issue No.	29
LM End	1.47	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.771735 °	37.771735 °
				-121.304847 °	-121.304847 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13650 DS_ID:19040 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No pump. Appears abandoned. Large hole under pipe on WS slope from animal activity. FIELD_STRUCT_DESC: 1 of 2: 18-inch polyvinyl chloride (PVC) irrigation pipe through the levee, 2.5 feet below the crown. Pump on pile structure in the stream. Walkway to the pump. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.49)]. FS Date: 5/21/2013					

LM Start	1.47	Rating **	M	Issue No.	29 (cont)
LM End	1.47	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_SP_2018_13650_22341.jpg



Pumping plant on metal pier on WS toe.

Photo 2 of 3 : UCIP_SP_2018_13650_22340.jpg



Large hole under pipe on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	1.47	Rating **	M	Issue No.	29 (cont)	
LM End	1.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.771735 °	37.771735 °	
				-121.304847 °	-121.304847 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:13650 DS_ID:19040 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No pump. Appears abandoned. Large hole under pipe on WS slope from animal activity. FIELD_STRUCT_DESC: 1 of 2: 18-inch polyvinyl chloride (PVC) irrigation pipe through the levee, 2.5 feet below the crown. Pump on pile structure in the stream. Walkway to the pump. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 9, April 1964, (HLM 1.49)]. FS Date: 5/21/2013						

Photo 3 of 3 : UCIP_SP_2018_13650_22339.jpg



Pumping plant on metal pier on WS toe. Pipe visible on right under walkway.

LM Start	1.47	Rating **	M	Issue No.	30	
LM End	1.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.771735 °	37.771735 °	
				-121.304847 °	-121.304847 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:15179						
DS_ID:23106						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe open on WS toe at the pump on pier. Pipe abandoned and should be done so properly.						
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 2.5 feet below the crown. Pump on pile structure in the stream.						
Walkway to the pump.						
FS Date: 5/21/2013						

Photo 1 of 3 : UCIP_SP_2018_15179_24935.jpg



Metal pier on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	1.47	Rating **	M	Issue No.	30 (cont)	
LM End	1.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.771735 °	37.771735 °	
				-121.304847 °	-121.304847 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:15179 DS_ID:23106 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe open on WS toe at the pump on pier. Pipe abandoned and should be done so properly. FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee, 2.5 feet below the crown. Pump on pile structure in the stream. Walkway to the pump. FS Date: 5/21/2013						

LM Start	1.47	Rating **	M	Issue No.	30 (cont)
LM End	1.47	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_15179_24934.jpg



Pipe visible under metal walkway on WS slope.

Photo 3 of 3 : UCIP_SP_2018_15179_24933.jpg



Pipe open at pump on platform on WS.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	2.04	Rating **	A/W	Issue No.	19
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		37.765040 °		
			-121.309750 °		
DWR ID	DWR_RD2107_01_f_2017_19				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:112 Site Designation:208-2 Repair Type: Seepage Rating: Field Date: Notes: LMA installed 24 foot seepage berm at the levee toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2018 Levee Inspection Results

Reclamation District No. 2107 Mossdale Island

Waterway			Bank	Unit Miles
Unit No. 02 Paradise Cut			Right	1.82
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/7/2018 - 3/7/2018			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Robert Brown RD2107			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	0.17	Rating **	A	Issue No.	5
LM End	0.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.761664 °	37.761664 °
				-121.312122 °	-121.312122 °
DWR ID	DWR_RD2107_02_s_2018_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Acceptable vegetation control.					

Photo 1 of 1 : SP_2018_RD2107_330_5_20180307_00010.jpg



View of the acceptable vegetation control on the levee slope, looking downstream.

LM Start	0.27	Rating **	M	Issue No.	6
LM End	0.27	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.762613 °	37.762613 °
				-121.313480 °	-121.313480 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13637					
DS_ID:19057					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe filled in with soil around outlet and not visible on LS. Appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel drainage pipe, 16 feet below the crown. Slide gate on the waterside (WS) toe.					
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 9, April 1964, (HLM 0.27)].					
FS Date: 5/21/2013					

Photo 1 of 2 : UCIP_SP_2018_13637_22299.jpg



Slide gate visible on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	0.27	Rating **	M	Issue No.	6 (cont)	
LM End	0.27	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.762613 °	37.762613 °	
				-121.313480 °	-121.313480 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:13637						
DS_ID:19057						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe filled in with soil around outlet and not visible on						
LS. Appears abandoned and should be done so properly.						
FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel drainage pipe,						
16 feet below the crown. Slide gate on the waterside (WS) toe.						
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin						
O&M Manual 9, April 1964, (HLM 0.27)].						
FS Date: 5/21/2013						

Photo 2 of 2 : UCIP_SP_2018_13637_22298.jpg



Slide gate visible on WS toe.

LM Start	0.54	Rating **	M	Issue No.	7
LM End	0.54	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.764832 °	37.764832 °
				-121.317405 °	-121.317405 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13636 DS_ID:19058 EP_NO: 13161 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some erosion along pipe alignment on WS slope. FIELD_STRUCT_DESC: 10-inch steel drainage pipe through the levee, 5 feet below the crown. Pump located on a 36-inch concrete standpipe at the landside (LS) toe. A polyvinyl chloride (PVC) pipe runs parallel to the waterside (WS) toe to the train tracks. Air relief valve on the WS shoulder. (Permit No. 13161, 1981 - [owner not indicated in permit database]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/21/2013					

Photo 1 of 3 : UCIP_SP_2018_13636_22296.jpg



Erosion along pipe alignment on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	0.54	Rating **	M	Issue No.	7 (cont)	
LM End	0.54	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.764832 °	37.764832 °	
				-121.317405 °	-121.317405 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:13636 DS_ID:19058 EP_NO: 13161 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some erosion along pipe alignment on WS slope. FIELD_STRUCT_DESC: 10-inch steel drainage pipe through the levee, 5 feet below the crown. Pump located on a 36-inch concrete standpipe at the landside (LS) toe. A polyvinyl chloride (PVC) pipe runs parallel to the waterside (WS) toe to the train tracks. Air relief valve on the WS shoulder. (Permit No. 13161, 1981 - [owner not indicated in permit database]). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 5/21/2013						

Photo 2 of 3 : UCIP_SP_2018_13636_22295.jpg



Pipe at outlet.

LM Start	0.54	Rating **	M	Issue No.	7 (cont)
LM End	0.54	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_SP_2018_13636_22294.jpg



JP and meter on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	1.01	Rating **	C	Issue No.	4
LM End	1.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.769832 °	37.769832 °
				-121.322758 °	-121.322758 °
DWR ID	DWR_RD2107_02_s_2017_4				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
The LMA repaired the10 ft erosion at waterside toe. Area should me monitored for the next flood season.					

No Photos

LM Start	1.51	Rating **	U	Issue No.	8	
LM End	1.51	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.774130 °	37.774130 °	
				-121.329896 °	-121.329896 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:52565 DS_ID:19056 EP_NO: 2966 Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/29/2017 Received update from DWR levee inspector M. Khashchuk and pipe is visible on WS toe with flap gate open: back filled during high winter flow to prevent erosion (no photos are available of back fill work). No updates were provided regarding repairs to the sink hole located on LS toe or internal inspection of pipe through the levee, pipe crossing remains urgent. (DWR UCIP - O. Magana)11/16/2016 Visible hole through pipe visible on WS end. Sink hole present at the LS ditch. Evidence of pipe repair visible on LS (see photos) however, no permit was found to document the work. Need to contact owner to determine permit authorizing work. Due to the hole in the pipe recommend internal inspection of the pipe through the levee to determine pipe integrity. (O. Magana - DWR UCIP)05/22/2013 Headwall around pipe at LS toe is failing and should be shored up. Flap gate propped open and should be returned to normal function. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end of the pipe. Two standard reinforced concrete cutoff walls around the pipe in line with the levee shoulders. (Permit No. 2966, 1958 - Dell'Oso Brothers). FS Date: 11/17/2016 10:50:00 AM						

Photo 1 of 3 : UCIP_SP_2018_52565_22441.jpg



Pipe visible on WS toe with Flap gate open.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/07/2018 03/07/2018	Maksim Khashchuk

LM Start	1.51	Rating **	U	Issue No.	8 (cont)	
LM End	1.51	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.774130 °	37.774130 °	
				-121.329896 °	-121.329896 °	
DWR ID						

Comment Code

Inspector Comment

FS_ID:52565
DS_ID:19056
EP_NO: 2966
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 11/29/2017 Received update from DWR levee inspector M. Khashchuk and pipe is visible on WS toe with flap gate open: back filled during high winter flow to prevent erosion (no photos are available of back fill work). No updates were provided regarding repairs to the sink hole located on LS toe or internal inspection of pipe through the levee, pipe crossing remains urgent. (DWR UCIP - O. Magana) 11/16/2016 Visible hole through pipe visible on WS end. Sink hole present at the LS ditch. Evidence of pipe repair visible on LS (see photos) however, no permit was found to document the work. Need to contact owner to determine permit authorizing work. Due to the hole in the pipe recommend internal inspection of the pipe through the levee to determine pipe integrity. (O. Magana - DWR UCIP) 05/22/2013 Headwall around pipe at LS toe is failing and should be shored up. Flap gate propped open and should be returned to normal function. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee, 14 feet below the crown. Flap gate on the waterside (WS) end of the pipe. Two standard reinforced concrete cutoff walls around the pipe in line with the levee shoulders. (Permit No. 2966, 1958 - Dell'Osso Brothers).
FS Date: 11/17/2016 10:50:00 AM

LM Start	1.51	Rating **	U	Issue No.	8 (cont)
LM End	1.51	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_SP_2018_52565_22440.jpg



Pipes visible under foliage on WS toe.

Photo 3 of 3 : UCIP_SP_2018_52565_22439.jpg



Headwall failing at drainage ditch on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	